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**TITLE 326 AIR POLLUTION CONTROL DIVISION****SECOND NOTICE OF COMMENT PERIOD**

LSA Document #18-542

**COLD CLEANING DEGREASING ALTERNATIVE****PURPOSE OF NOTICE**

The Indiana Department of Environmental Management (IDEM) is soliciting public comment on amendments to rules at [326 IAC 8-3-1](#), [326 IAC 8-3-2](#), [326 IAC 8-3-3](#), [326 IAC 8-3-4](#), and [326 IAC 8-3-8](#), concerning cold cleaning degreasing and the addition of a control device option to comply with the requirement to use a low vapor pressure solvent. IDEM seeks comment on the affected citations listed and any other provisions of Title 326 that may be affected by this rulemaking.

**HISTORY**

First Notice of Comment Period: December 19, 2018, Indiana Register (DIN: [20181219-IR-326180542FNA](#)).

**CITATIONS AFFECTED:** [326 IAC 8-3-1](#); [326 IAC 8-3-2](#); [326 IAC 8-3-3](#); [326 IAC 8-3-4](#); [326 IAC 8-3-8](#).

**AUTHORITY:** [IC 13-14-8](#); [IC 13-17-3-1](#); [IC 13-17-3-4](#).

**SUBJECT MATTER AND BASIC PURPOSE OF RULEMAKING****Basic Purpose and Background**

Cold cleaning is one of four types of degreasing operations in which industrial sources dip or spray machinery parts with a solvent. Emissions of volatile organic compounds (VOC) occur as a result of evaporation from the storing and handling of fresh and spent solvents. VOCs contribute to the formation of ground level ozone under certain situations, such as days with strong sunlight, high temperatures, or stagnant weather conditions. This can be hazardous to the health of certain vulnerable populations like the young or elderly, as well as those with existing respiratory problems. The United States Environmental Protection Agency (U.S. EPA) regulates VOC emissions in the Code of Federal Regulations (CFR) under the National Emission Standards for Hazardous Air Pollutants at 40 CFR 63, and ground level ozone under the National Ambient Air Quality Standards at 40 CFR 50.

Indiana's current state rule at [326 IAC 8-3-8](#) requires sources operating cold cleaner degreasers to utilize a low vapor pressure solvent for cleaning or degreasing machine parts. The current rule does not provide an option for sources to use a higher vapor pressure solvent with a control device, such as carbon adsorption or regenerative thermal oxidizer (RTO), as an alternative to using a low vapor pressure solvent. However, low vapor pressure solvents do not clean well in certain situations, such as the printing industry, and they can contaminate print ink and cause loss of product. Due to potential contamination, printing sources cannot recycle the low vapor pressure solvents on site or use cleaning solvents that have been recycled off site. Additionally, low pressure solvents require duplication of the cleaning process through additional wiping to ensure that there is no remaining residue. Therefore, some sources currently use a wipe cleaning method with rags containing alcohol and acetate solvents for their printing components. Wipe cleaning is a highly inefficient process that increases emissions and results in 100% solvent evaporation. This method also produces a large amount of material that usually has to be managed as hazardous waste, as the rags are contaminated with solvent and ink.

IDEM is proposing to amend [326 IAC 8-3-1](#), [326 IAC 8-3-2](#), [326 IAC 8-3-3](#), [326 IAC 8-3-4](#), and [326 IAC 8-3-8](#) to allow for the use of an alternative control device for solvents with a higher vapor pressure, in order to control emissions from cold cleaning degreasing activities for users currently required to use a low vapor pressure solvent to comply with the state rule. These amendments are consistent with U.S. EPA regulations and will ensure smoother and more efficient operations for industrial sources in the state. The proposed control device option would not only decrease emissions and hazardous waste, but would streamline the degreasing process and save the sources money. It could also facilitate the reuse of printing solvents on presses and in printing inks, thereby reducing air emissions from chemical plants that would otherwise have to manufacture virgin solvents to be used in those processes.

Additional changes to the rule language include updating language in each section to ensure rule clarity and consistency, and exempting spray gun cleaners in [326 IAC 8-3-1](#) from the control equipment, operating, and material requirements of cold cleaner degreasers. Spray gun cleaners are not considered to be cold cleaner degreasers because they are a flushing system that are not used to clean parts and are not immersed in solvent. IDEM seeks comment on the affected citations listed, including suggestions for specific language, any other provisions of Title 326 that may be affected by this rulemaking, and alternative ways to achieve the purpose of the rulemaking.

**[IC 13-14-9-4](#) Identification of Restrictions and Requirements Not Imposed under Federal Law**

No element of the draft rule imposes either a restriction or a requirement on persons to whom the draft rule applies that is not imposed under federal law.

#### **Potential Fiscal Impact**

There is a positive fiscal impact associated with this rulemaking. Allowing sources to use a higher vapor pressure solvent with a control device would enable them to clean parts more quickly and efficiently and potentially reuse recovered solvents, thereby reducing operating costs and hazardous emissions. This proposed rule would also enable existing businesses to remain competitive with businesses from other states.

#### **Public Participation and Work Group Information**

At this time, no work group is planned for the rulemaking. If you feel that a work group or other informal discussion on the rule is appropriate, please contact Keelyn Walsh, Rules Development Branch, Office of Legal Counsel at (317) 232-8229 or (800) 451-6027 (in Indiana).

#### **SUMMARY/RESPONSE TO COMMENTS FROM THE FIRST COMMENT PERIOD**

IDEM requested public comment from December 19, 2018, through January 18, 2019, on alternative ways to achieve the purpose of the rule and suggestions for the development of draft rule language. IDEM received comments from the following parties by the comment period deadline:

Stephen L. Carpenter, Printpack (SLC)

James Hartman, Department of Defense (JH)

Following is a summary of the comments received and IDEM's responses thereto:

*Comment:* Printpack supports IDEM's proposed rule amendments and states that the rule will reduce operating costs, overall environmental footprint, and the risk of business disruption from ineffective cleaning and difficulties associated with the pricing and availability of low vapor pressure cleaners. Printpack supports these assertions in the following ways:

Printpack states that operating costs will be reduced through recycling of the solvents from inks used in the printing process, which reduces the amount of solvent that needs to be purchased. Recycling the solvents onsite also reduces the amount of hazardous waste generated, which in turn reduces costs further.

Printpack asserts that the reduction in hazardous wastes and material will have a positive impact on the environment, and that utilizing higher vapor pressure printing solvents for cleaning both the press and in the degreasing process reduces the net hazardous waste generation from their printing operations. Additionally, venting the higher vapor pressure printing solvents to an RTO helps supplement RTO fuel, which reduces energy usage and associated greenhouse gases, and is the environmentally superior approach.

Printpack states that using a low vapor pressure solvent is a business risk, due to the uncertainty of available supply of the solvent, as well as the ready availability of alcohols and acetates in the industry. Additionally, Printpack has had mixed results with using low vapor pressure degreasing solvents, and therefore investing in equipment that utilizes those solvents is a business risk as well. (SLC)

*Response:* IDEM appreciates the comments submitted by Printpack. IDEM is amending the rule language at [326 IAC 8-3-8](#) to provide an option for sources operating cold cleaning degreasers to use a higher vapor pressure solvent with a control device. IDEM agrees that the proposed rulemaking will serve to reduce the operating costs and negative environmental impact of sources utilizing the control device option, as well as reduce the risk of business disruption that may result from failure to allow alternative control devices for cold cleaning degreasers. The additional flexibility this rule will provide to sources will allow them to save money, reduce emissions and hazardous waste, and help streamline the degreasing process.

*Comment:* Printpack proposes a change to the rule language in [326 IAC 8-3-1](#) related to the addition of an alternative control device for solvents with a vapor pressure of greater than 1 millimeter (mm) mercury (Hg). Printpack suggests the following rule language change to [326 IAC 8-3-1\(d\)\(1\)\(C\)](#) and [326 IAC 8-3-1\(d\)\(2\)\(D\)](#):

"Degreasers that are controlled by one of the following methods:

- (A) Flame, thermal or catalytic oxidation so as either to reduce such emissions to 10 ppm equivalent methane (molecular weight 16) or less, or to convert 85 percent of VOCs to carbon dioxide and water; or
- (B) A vapor recovery system which absorbs and/or condenses at least 85 percent of the total uncontrolled VOCs that would otherwise be emitted to the atmosphere; or,
- (C) Any other air pollution control equipment approved by IDEM and approved by the U.S. EPA as a SIP revision capable of reducing by 85 percent or more the uncontrolled VOCs that would be otherwise emitted to the atmosphere." (SLC)

*Response:* IDEM has included the suggested rule language change allowing cold cleaning degreasers to utilize high vapor pressure solvents with alternative control devices in [326 IAC 8-3-2\(b\)\(1\)\(E\)](#), [326 IAC 8-3-3\(b\)\(2\)\(E\)](#), [326 IAC 8-3-4\(b\)\(5\)\(C\)](#), and [326 IAC 8-3-8\(b\)\(3\)](#).

*Comment:* Printpack proposes a change to the rule language in [326 IAC 8-3-8](#) related to exemptions for the sale and use of solvents with a vapor pressure of 1mm Hg or greater in cold cleaning degreasing operations using an alternate control device. Printpack suggests the following rule language change to [326 IAC 8-3-8\(b\)\(1\)](#):

"(A) This requirement does not apply to facilities exempted from section 8 of the rule under [326 IAC 8-3-1\(d\)\(2\)\(D\)](#)." (SLC)

*Response:* IDEM has included new rule language regarding exemptions for the sale and use of solvents with a vapor pressure of 1mm HG or greater for cold cleaning degreasers utilizing the control device option in [326 IAC 8-3-8\(b\)\(1\)](#) and [326 IAC 8-3-8\(b\)\(2\)](#).

*Comment:* Printpack proposes a change to the rule language in [326 IAC 8-3-1](#) regarding the exemption of solvents used for spray cleaning from the requirements for solvent spray in [326 IAC 8-3-1\(b\)\(3\)](#). Printpack suggests the following rule language change to [326 IAC 8-3-1\(d\)](#):

"Section 8-3-2(b)(3) of this rule does not apply to degreasers with maximum potential uncontrolled VOC emissions of 15 lbs/day that are not located in Clark, Floyd, Lake, or Porter County." (SLC)

*Response:* IDEM has implemented the suggested rule language change regarding the exemption of solvents used for spray cleaning in [326 IAC 8-3-1\(d\)\(3\)](#).

*Comment:* The Department of Defense (DoD) takes its responsibility to protect the environment while carrying out its military mission very seriously. The DoD has various operational issues relating to cleaning of mission-critical parts and equipment that could benefit from increased flexibility in the above referenced regulation. (JH)

*Response:* IDEM appreciates the comment submitted by the DoD. This rulemaking allows for the use of alternative control devices by sources for solvents with a higher vapor pressure with the goal of decreasing operating costs and emissions, and providing operating flexibility for sources using these controls.

## REQUEST FOR PUBLIC COMMENTS

This notice requests the submission of comments on the draft rule language, including suggestions for specific revisions to language to be contained in the draft rule. Comments may be submitted in one of the following ways:

(1) By mail or common carrier to the following address:

LSA Document #18-542 Cold Cleaning Degreasing Alternative  
Keelyn Walsh  
Rules Development Branch  
Office of Legal Counsel  
Indiana Department of Environmental Management  
Indiana Government Center North  
100 North Senate Avenue  
Indianapolis, IN 46204-2251

(2) By facsimile to (317) 233-5970. Please confirm the timely receipt of faxed comments by calling the Rules Development Branch at (317) 232-8922.

(3) By electronic mail to [kwalsh@idem.in.gov](mailto:kwalsh@idem.in.gov). To confirm timely delivery of submitted comments, please request a document receipt when sending the electronic mail. **PLEASE NOTE: Electronic mail comments will NOT be considered part of the official written comment period unless they are sent to the address indicated in this notice.**

(4) Hand delivered to the receptionist on duty at the thirteenth floor reception desk, Office of Legal Counsel, Indiana Government Center North, 100 North Senate Avenue, Indianapolis, Indiana.

Regardless of the delivery method used, to properly identify each comment with the rulemaking action it is intended to address, each comment document must clearly specify the LSA document number of the rulemaking.

## COMMENT PERIOD DEADLINE

All comments must be postmarked, faxed, or time stamped not later than September 13, 2019. Hand-delivered comments must be delivered to the appropriate office by 4:45 p.m. on the above-listed deadline date.

Additional information regarding this action may be obtained from Keelyn Walsh, Rules Development Branch, Office of Legal Counsel, (317) 232-8229 or (800) 451-6027 (in Indiana).

## DRAFT RULE

SECTION 1. [326 IAC 8-3-1](#) IS AMENDED TO READ AS FOLLOWS:

### [326 IAC 8-3-1](#) Applicability and exemptions

**Authority:** [IC 13-14-8](#); [IC 13-17](#)

**Affected:** [IC 13-17-3](#)

Sec. 1. (a) This rule applies to the following:

(1) Persons owning or operating ~~degreasers~~ **a degreaser** using solvents that contain one (1) or more volatile organic compounds (VOC), **with potential VOC emissions of greater than or equal to fifteen (15) pounds**

**per day.**

(2) Any person who sells, offers for sale, uses, or manufactures solvent that contains one (1) or more VOC for use in cold cleaner degreasers.

(b) For purposes of this section, "electronic components" means all components of an electronic assembly, including ~~but not limited to~~, the following:

- (1) Circuit board assemblies.
- (2) Printed wire assemblies.
- (3) Printed circuit boards.
- (4) Soldered joints.
- (5) Ground wires.
- (6) Bus bars.
- (7) Any other associated electronic component manufacturing equipment.

(c) Unless exempted in subsection (d), this rule applies to persons owning or operating degreasers as follows:

- (1) Sections 2(a), 3(a), and 4(a) of this rule apply to the following degreasers:
  - (A) Degreasers constructed on or before January 1, 1980, that are located:
    - (i) in Clark, Elkhart, Floyd, Lake, Marion, Porter, or St. Joseph County; and
    - (ii) at sources that have potential emissions of ninety and seven-tenths (90.7) megagrams (one hundred (100) tons) or greater per year of VOC.
  - (B) Degreasers constructed after January 1, 1980, located anywhere in the state.
- (2) Sections 2 through 4 of this rule apply to the following degreasers:
  - (A) Cold cleaner degreasers without remote solvent reservoirs that:
    - (i) are located in Clark, Elkhart, Floyd, Lake, Marion, Porter, or St. Joseph County; or
    - (ii) were constructed after July 1, 1990, and located anywhere in the state.
  - (B) Open top vapor degreasers with an air-to-solvent interface of one (1) square meter (ten and eight-tenths (10.8) square feet) or greater that:
    - (i) are located in Clark, Elkhart, Floyd, Lake, Marion, Porter, or St. Joseph County; or
    - (ii) were constructed after July 1, 1990, and located anywhere in the state.
  - (C) Conveyorized degreasers with an air-to-solvent interface of two (2) square meters (twenty-one and six-tenths (21.6) square feet) or greater that:
    - (i) are located in Clark, Elkhart, Floyd, Lake, Marion, Porter, or St. Joseph County; or
    - (ii) were constructed after July 1, 1990, and located anywhere in the state.
- (3) Section 8 of this rule applies to any person who sells, offers for sale, uses, or manufactures solvent for use in cold cleaner degreasers as follows:
  - (A) Before January 1, 2015, in the following counties:
    - (i) Clark.
    - (ii) Floyd.
    - (iii) Lake.
    - (iv) Porter.
  - (B) On and after January 1, 2015, anywhere in the state.

(d) The following degreasers and solvent material uses are exempted from this rule:

- (1) Sections 2 through 4 of this rule do not apply to the following solvent degreasing operations:
  - (A) Degreasers that are required to comply with and are operated in compliance with [326 IAC 20-6-1](#) that incorporates by reference 40 CFR 63, Subpart T\*, National Emissions Standards for Hazardous Air Pollutants for Halogenated Solvent Cleaning.
  - (B) Degreasers that use solvents that contain less than one percent (1%) of VOC by weight.
- (2) Section 8 of this rule does not apply to the following:
  - (A) Solvents intended to be used in degreasers to clean electronic components.
  - (B) Solvents used in degreasers that are:
    - (i) required to comply with and are operated in compliance with the requirements of [326 IAC 20-15-1](#), which incorporates by reference 40 CFR 63, Subpart GG\*, National Emission Standards for Aerospace Manufacturing and Rework Facilities; and
    - (ii) not located in Clark, Floyd, Lake, or Porter County.
  - (C) Solvents containing less than one percent (1%) VOC by weight used in degreasers that are not located in Clark, Floyd, Lake, or Porter County.

**(3) Sections 2 and 8 of this rule do not apply to spray gun cleaners, provided that the following conditions are met:**

**(A) The spray gun cleaner is not used to clean parts.**

- (B) The spray gun cleaner is a flushing system only that:
- (i) is connected to the cleaner;
  - (ii) is pumped through the spray gun to flush out remaining coating;
  - (iii) is contained in a small tank and pumped through the spray gun into a collection basin;
  - (iv) has a drain that returns the solvent to the tank; and
  - (v) is used for nonatomized spray for flushing lines and spray guns that are:
    - (AA) connected to a container of solvent; and
    - (BB) sprayed into a covered or closed container.
- (C) The spray gun is not immersed in solvent.

(e) When a limit is expressed in metric units and the English units are provided, the owner or operator has the option of using either metric or English units to demonstrate compliance with the rule.

\*These documents are incorporated by reference. Copies may be obtained from the Government Printing Office, 732 North Capitol Street NW, Washington, D.C. 20401 [www.gpo.gov](http://www.gpo.gov), or are available for review and copying at the Indiana Department of Environmental Management, Office of Air Quality, Legal Counsel, Indiana Government Center North, Tenth Floor, 100 North Senate Avenue, Thirteenth Floor, Indianapolis, Indiana 46204.

(Air Pollution Control Division; [326 IAC 8-3-1](#); filed Mar 10, 1988, 1:20 p.m.: 11 IR 2537; filed Apr 18, 1990, 4:55 p.m.: 13 IR 1679; filed Apr 27, 1999, 9:06 a.m.: 22 IR 2854; readopted filed Jan 10, 2001, 3:20 p.m.: 24 IR 1477; filed Jan 30, 2013, 12:33 p.m.: [20130227-IR-326070352FRA](#))

SECTION 2. [326 IAC 8-3-2](#) IS AMENDED TO READ AS FOLLOWS:

**[326 IAC 8-3-2](#) Cold cleaner degreaser control equipment and operating requirements**

**Authority:** [IC 13-14-8](#); [IC 13-17-3-4](#); [IC 13-17-3-11](#); [IC 13-17-3-12](#)

**Affected:** [IC 13-17-3](#)

Sec. 2. (a) The owner or operator of a cold cleaner degreaser shall ~~ensure~~ **comply with** the following control equipment and operating requirements: ~~are met:~~

- (1) Equip the degreaser with a cover.
- (2) Equip the degreaser with a device for draining cleaned parts.
- (3) Close the degreaser cover whenever parts are not being handled in the degreaser.
- (4) Drain cleaned parts for at least fifteen (15) seconds or until dripping ceases.
- (5) Provide a permanent, conspicuous label that lists the operating requirements in subdivisions (3), (4), (6), and (7).
- (6) Store waste solvent only in closed containers.
- (7) Prohibit the disposal or transfer of waste solvent in ~~such~~ a manner that could allow greater than twenty percent (20%) of the waste solvent by weight to evaporate into the atmosphere.

(b) The owner or operator of a cold cleaner degreaser subject to this subsection shall ~~ensure~~ **comply with** the following additional control equipment and operating requirements: ~~are met:~~

- (1) Equip the degreaser with one (1) of the following control devices if the solvent is heated to a temperature of greater than forty-eight and nine-tenths (48.9) degrees Celsius (one hundred twenty (120) degrees Fahrenheit):
  - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths (0.75) or greater.
  - (B) A water cover when solvent used is insoluble in, and heavier than, water.
  - (C) A refrigerated chiller.
  - (D) Carbon adsorption.
  - (E) ~~An alternative system of demonstrated equivalent or better control as those outlined in clauses (A) through (D) that is approved by the department. An alternative system shall be submitted to the U.S. EPA as a SIP revision.~~ **VOC emission control equipment operated in accordance with section 8(b)(3) of this rule.**
- (2) Ensure the degreaser cover is designed so that it can be easily operated with one (1) hand if the solvent is agitated or heated.
- (3) If used, solvent spray **must be:**
  - (A) ~~must be~~ **performed in an enclosed chamber;**



(B) a solid, fluid stream; and

~~(B) shall be~~ (C) applied at a pressure that does not cause excessive splashing.

(Air Pollution Control Division; [326 IAC 8-3-2](#); filed Mar 10, 1988, 1:20 p.m.: 11 IR 2537; readopted filed Jan 10, 2001, 3:20 p.m.: 24 IR 1477; filed Jan 30, 2013, 12:33 p.m.: [20130227-IR-326070352FRA](#))

SECTION 3. [326 IAC 8-3-3](#) IS AMENDED TO READ AS FOLLOWS:

**[326 IAC 8-3-3](#) Open top vapor degreaser operation**

**Authority:** [IC 13-14-8](#); [IC 13-17-3-4](#); [IC 13-17-3-11](#); [IC 13-17-3-12](#)

**Affected:** [IC 13-17-3](#)

Sec. 3. (a) The owner or operator of an open top vapor degreaser shall ~~ensure~~ **comply with** the following control equipment and operating requirements: ~~are met:~~

- (1) Equip the vapor degreaser with a cover that can be opened and closed easily without disturbing the vapor zone.
- (2) Keep the cover closed at all times except when processing workloads through the degreaser.
- (3) Minimize solvent carryout by:
  - (A) racking parts to allow complete drainage;
  - (B) moving parts in and out of the degreaser at less than three and three-tenths (3.3) meters per minute (eleven (11) feet per minute);
  - (C) degreasing the workload in the vapor zone at least thirty (30) seconds or until condensation ceases;
  - (D) tipping out any pools of solvent on the cleaned parts before removal; and
  - (E) allowing parts to dry within the degreaser for at least fifteen (15) seconds or until visually dry.
- (4) Prohibit the entrance into the degreaser of porous or absorbent materials, such as cloth, leather, wood, or rope.
- (5) Prohibit occupation of more than one-half (1/2) of the degreaser's open top area with the workload.
- (6) Prohibit the loading of the degreaser in a manner that causes the vapor level to drop more than fifty percent (50%) of the vapor depth when the workload is removed.
- (7) Prohibit solvent spraying above the vapor level.
- (8) Repair solvent leaks immediately, or shut down the degreaser if leaks cannot be repaired immediately.
- (9) Store waste solvent only in closed containers.
- (10) Prohibit the disposal or transfer of waste solvent in a manner that could allow greater than twenty percent (20%) of the waste solvent by weight to evaporate into the atmosphere.
- (11) Prohibit the use of workplace fans near the degreaser opening.
- (12) Prohibit visually detectable water in the solvent exiting the water separator.
- (13) Provide the degreaser with a permanent, conspicuous label that lists the operating requirements in subdivisions (2) through (12).

(b) The owner or operator of an open top vapor degreaser subject to this subsection shall ~~ensure~~ **comply with** the following additional control equipment and operating requirements: ~~are met:~~

- (1) Equip the degreaser with the following switches:
  - (A) A condenser flow switch and thermostat that shuts off sump heat if condenser coolant stops circulating or becomes too warm.
  - (B) A spray safety switch that shuts off spray pump if the vapor level drops more than ten (10) centimeters (four (4) inches).
- (2) Equip the degreaser with one (1) of the following control devices:
  - (A) A freeboard ratio of seventy-five hundredths (0.75) or greater and a powered cover if the degreaser opening is greater than one (1) square meter (ten and eight-tenths (10.8) square feet).
  - (B) A refrigerated chiller.
  - (C) An enclosed design in which the cover opens only when the article is actually entering or exiting the degreaser.
  - (D) A carbon adsorption system with ventilation that, with the cover open, achieves a ventilation rate of greater than or equal to fifteen (15) cubic meters per minute per square meter (fifty (50) cubic feet per minute per square foot) of air-to-vapor interface area and an average of less than twenty-five (25) parts per million of solvent is exhausted over one (1) complete adsorption cycle.
  - (E) ~~An alternative system of demonstrated equivalent or better control as those outlined in clauses (A) through (D) that is approved by the department. An alternative system shall be submitted to the U.S. EPA as a SIP revision.~~ **VOC emission control equipment that complies with the following:**

(i) A capture efficiency of at least ninety percent (90%) by weight for the VOC emissions.

(ii) Either:

(AA) a destruction efficiency of at least ninety percent (90%), by weight; or

(BB) an outlet concentration of less than fifty (50) parts per million, by volume, dry basis, for the VOC emissions.

(iii) Compliance with the test methods and procedures in [326 IAC 8-1-4\(d\)](#) through [326 IAC 8-1-4\(f\)](#).

(3) Prohibit the loading of the degreaser to the point where the vapor level would drop more than ten (10) centimeters (four (4) inches) when the workload is removed.

(4) Prohibit the exhaust ventilation rate from exceeding twenty (20) cubic meters per minute per square meter (sixty-five (65) cubic feet per minute per square foot) of degreaser open area unless a greater ventilation rate is necessary to meet Occupational Safety and Health Administration requirements.

(5) Ensure that the label required under subsection (a)(13) includes the additional operating requirements listed in subdivisions (3) and (4).

(Air Pollution Control Division; [326 IAC 8-3-3](#); filed Mar 10, 1988, 1:20 p.m.: 11 IR 2537; readopted filed Jan 10, 2001, 3:20 p.m.: 24 IR 1477; filed Jan 30, 2013, 12:33 p.m.: [20130227-IR-326070352FRA](#))

SECTION 4. [326 IAC 8-3-4](#) IS AMENDED TO READ AS FOLLOWS:

**[326 IAC 8-3-4](#) Conveyorized degreaser control equipment and operating requirements**

**Authority:** [IC 13-14-8](#); [IC 13-17-3-4](#); [IC 13-17-3-11](#); [IC 13-17-3-12](#)

**Affected:** [IC 13-17-3](#)

Sec. 4. (a) The owner or operator of a conveyorized degreaser shall ~~ensure~~ **comply with** the following control equipment and operating requirements: ~~have been met:~~

(1) Minimize carryout emissions by:

(A) racking parts for optimal drainage; and

(B) maintaining the vertical conveyor speed at less than three and three-tenths (3.3) meters per minute (eleven (11) feet per minute).

(2) Store waste solvent only in closed containers.

(3) Prohibit the disposal or transfer of waste solvent in a manner that could allow greater than twenty percent (20%) of the waste solvent by weight to evaporate into the atmosphere.

(4) Repair solvent leaks immediately, or shut down the degreaser if leaks cannot be repaired immediately.

(5) Prohibit the use of workplace fans near the degreaser opening.

(6) Prohibit visually detectable water in the solvent from exiting the water separator.

(7) Equip the degreaser with a permanent, conspicuous label that lists the operating requirements in subdivisions (1) through (6).

(b) The owner or operator of a conveyorized degreaser subject to this subsection shall ~~ensure~~ **comply with** the following control equipment and operating requirements: ~~are met:~~

(1) Equip the degreaser's entrances and exits with downtime covers that are closed when the degreaser is not operating.

(2) Equip the degreaser with the following switches:

(A) A condenser flow switch and thermostat that shuts off sump heat if condenser coolant stops circulating or becomes too warm.

(B) A spray safety switch that shuts off spray pump if the vapor level drops more than ten (10) centimeters (four (4) inches).

(C) A vapor level control thermostat that shuts off sump heat when vapor level rises more than ten (10) centimeters (four (4) inches).

(3) Equip the degreaser with entrances and exits that silhouette workloads in ~~such~~ a manner that the average clearance between the articles and the degreaser opening is either less than:

(A) ten (10) centimeters (four (4) inches); or ~~less than~~

(B) ten percent (10%) of the width of the opening.

(4) Equip the degreaser with a drying tunnel, rotating or tumbling basket, or other equipment that prevents cleaned articles from carrying out solvent liquid or vapor.

(5) Equip the degreaser with one (1) of the following control devices:

(A) A refrigerated chiller.

(B) A carbon adsorption system with ventilation that, with the downtime covers open, achieves a ventilation rate of greater than or equal to fifteen (15) cubic meters per minute per square meter (fifty (50) cubic feet

per minute per square foot) of air-to-solvent interface area, and an average of less than twenty-five (25) parts per million of solvent is exhausted over one (1) complete adsorption cycle.  
(C) An alternative system of demonstrated equivalent or better control as those outlined in clause (A) or (B) that is approved by the department. An alternative system shall be submitted to the U.S. EPA as a SIP revision: **VOC emission control equipment operated in accordance with the following:**

(i) **A capture efficiency of at least ninety percent (90%) by weight for the VOC emissions.**

(ii) **Either:**

(AA) **a destruction efficiency of at least ninety percent (90%), by weight; or**

(BB) **an outlet concentration of less than fifty (50) parts per million, by volume, dry basis, for the VOC emissions.**

(iii) **Compliance with the test methods and procedures in [326 IAC 8-1-4\(d\)](#) through [326 IAC 8-1-4\(f\)](#).**

(6) Prohibit the exhaust ventilation rate from exceeding twenty (20) cubic meters per minute per square meter (sixty-five (65) cubic feet per minute per square foot) of degreaser opening unless a greater ventilation rate is necessary to meet Occupational Safety and Health Administration requirements.

(7) Cover entrances and exits at all times except when processing workloads through the degreaser.

(8) Ensure that the label required under subsection (a)(7) includes the additional operating requirements listed in subdivisions (6) and (7).

(Air Pollution Control Division; [326 IAC 8-3-4](#); filed Mar 10, 1988, 1:20 p.m.: 11 IR 2537; readopted filed Jan 10, 2001, 3:20 p.m.: 24 IR 1477; filed Jan 30, 2013, 12:33 p.m.: [20130227-IR-326070352FRA](#))

SECTION 5. [326 IAC 8-3-8](#) IS AMENDED TO READ AS FOLLOWS:

### **[326 IAC 8-3-8](#) Material requirements for cold cleaner degreasers**

**Authority:** [IC 13-14-8](#); [IC 13-17-3-4](#); [IC 13-17-3-11](#); [IC 13-17-3-12](#)

**Affected:** [IC 13-17-3](#)

Sec. 8. (a) Material requirements specified in this section for use in cold cleaner degreasers apply as follows:

(1) Before January 1, 2015, in Clark, Floyd, Lake, and Porter counties.

(2) On and after January 1, 2015, anywhere in the state.

(b) Material requirements are as follows:

(1) ~~No~~ **A person shall not** cause or allow the sale of solvents for use in cold cleaner degreasing operations with a VOC composite partial vapor pressure, when diluted at the manufacturer's recommended blend and dilution, that exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit) in an amount greater than five (5) gallons during any seven (7) consecutive days to an individual or business, **except in compliance with subdivision (3).**

(2) ~~No~~ **A person shall not** operate a cold cleaner degreaser with a solvent that has a VOC composite partial vapor pressure that exceeds one (1) millimeter of mercury (nineteen-thousandths (0.019) pound per square inch) measured at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit), **except in compliance with subdivision (3).**

(3) **As an alternative to compliance with subdivisions (1) and (2), the owner or operator of a degreaser may install and operate VOC emission control equipment for a cold cleaner degreaser that meets the following:**

(A) **A capture efficiency of at least ninety percent (90%) by weight for the VOC emissions.**

(B) **Either:**

(i) **a destruction efficiency of at least ninety percent (90%), by weight; or**

(ii) **an outlet concentration of less than fifty (50) parts per million, by volume, dry basis, for the VOC emissions.**

(C) **Test methods and procedures in [326 IAC 8-1-4\(d\)](#) through [326 IAC 8-1-4\(f\)](#).**

(c) Record keeping requirements are as follows:

(1) ~~All persons~~ **A person** subject to the requirements of subsection (b)(1) shall maintain all of the following records for each sale:

(A) The name and address of the solvent purchaser.

(B) The date of sale, ~~for invoice, bill date~~ **or billing of the contract servicer indicating the service date.**

(C) The type of solvent sold.

(D) The volume of each unit of solvent sold.



(E) The total volume of the solvent sold.

(F) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

(2) ~~All persons~~ **A person** subject to the requirements of subsection (b)(2) shall maintain each of the following records for each purchase:

(A) The name and address of the solvent supplier.

(B) The date of purchase, ~~for invoice, bill date or billing~~ of the contract servicer indicating the service date.

(C) The type of solvent purchased.

(D) The total volume of the solvent purchased.

(E) The true vapor pressure of the solvent measured in millimeters of mercury at twenty (20) degrees Celsius (sixty-eight (68) degrees Fahrenheit).

**(3) A person subject to the requirements of subsection (b)(3) shall:**

**(A) comply with the monitoring equipment requirements in [326 IAC 8-1-12\(b\)\(2\)](#); and**

**(B) collect and record the control device monitoring data in [326 IAC 8-1-12\(c\)\(6\)](#) through [326 IAC 8-1-12\(c\)\(8\)](#) each day of operation of the solvent cleaning operation and control device.**

(d) All records required by subsection (c) ~~shall~~ **must** be:

(1) retained on-site or accessible electronically from the site for the most recent three (3) year period; and

(2) reasonably accessible for an additional two (2) year period.

*(Air Pollution Control Division; [326 IAC 8-3-8](#); filed Apr 27, 1999, 9:06 a.m.: 22 IR 2854; readopted filed Jan 10, 2001, 3:20 p.m.: 24 IR 1477; filed Jan 30, 2013, 12:33 p.m.: [20130227-IR-326070352FRA](#))*

#### [Notice of Public Hearing](#)

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